

The Cancellariid Genera *Narona* H. & A. Adams and *Panarona* gen. nov.

BY

RICHARD E. PETIT

806 St. Charles Road, North Myrtle Beach, South Carolina 29582

Research Associate, Paleontological Research Institution, Ithaca, New York

INTRODUCTION

IN THE COURSE of a continuing study of the gastropod family Cancellariidae, it was learned that the currently accepted type of *Narona* H. & A. Adams, 1854 is not the species first designated as type. This changes the concept of *Narona* and necessitates erection of a new genus to accommodate species presently included under *Narona*. The new taxon *Panarona* is here introduced for that group.

TAXONOMY

Narona H. & A. Adams, 1854, Genera of recent mollusca 1: 277
Type, by SD, KOBELT, 1878, *Cancellaria sowerbyi* Crosse, 1861
(= *Cancellaria mitriformis* Sowerby, 1831). Recent, Pan-
amic-Pacific.

The type of *Narona* is usually cited as *Cancellaria clavatulata* Sowerby, 1832, based on subsequent designation by JOUSSEAUME (1887) or COSSMANN (1899). However, the earliest type designation for this genus is evidently that of KOBELT (1878: 102) which designates *C. sowerbyi* Crosse. *Cancellaria sowerbyi* Crosse, 1861, is an unnecessary replacement name for *C. mitriformis* Sowerby, which was thought to be preoccupied by *Voluta mitraeformis* Brocchi, 1814, a cancellariid. Kobelt clearly indicated that *C. sowerbyi* Crosse was identical to *C. mitriformis* Sowerby, thus satisfying I. C. Z. N. Article 69 (a) (iv).

The availability of Kobelt's work and its importance as a source for type designations was pointed out by REHDER (1952) and it is unfortunate that this type designation has been overlooked.

MARKS (1949: 457), realizing that *Cancellaria mitriformis* Sowerby and *C. clavatulata* Sowerby are generically (or subgenerically) distinct, proposed the new taxon

Hertleinia with *C. mitriformis* Sowerby as type. *Hertleinia* therefore must unfortunately be relegated to the synonymy of *Narona* as a junior objective synonym. The group of species heretofore placed in *Narona*, with *C. clavatulata* Sowerby as type, is now without a name, and the new taxon *Panarona* is proposed below for that group.

Although this change in concept of *Narona* disrupts the current literature, this writer thinks that had the Adams brothers selected a type for *Narona*, it would have been *Cancellaria mitriformis* Sowerby. In their brief description of the genus the one statement most clearly applicable to only *C. clavatulata* or *C. mitriformis* is "outer lip crenate," which can apply only to *C. mitriformis* Sowerby.

Panarona Petit, gen. nov.

Type, here designated, *Cancellaria clavatulata* Sowerby, 1832. Recent, Panamic-Pacific

Description: Shell small, slender with tapering spire with slightly rounded shoulders. Protoconch large and smooth, consisting of about 3 whorls. Early whorls bicarinate, later whorls with spiral cords crossing swollen axial ribs which sometimes resemble varices. Aperture elongate, its length approximately equal to the height of the spire. Interior of outer lip denticulate, with slight stromboid notch. Columella fairly straight with 2 descending folds, the posterior one being slightly stronger.

Discussion: This taxon is necessary to replace *Narona* as used in current literature (see discussion under *Narona* above). This new genus differs from *Narona* with *Cancellaria mitriformis* Sowerby as type in having a smooth outer lip and in the presence of almost equal columellar folds. In *Narona* the posterior columellar fold is much larger than the anterior fold.

This is a paciphile genus as noted by WOODRING (1966: 428) and is a useful genus or subgenus in differentiating

the Caribbean and Panamic cancellariids. Species now assigned to *Panarona* have been recognized in the Tertiary faunas of Florida, the Caribbean, Central America and northwestern South America, and in the Recent fauna of the Panamic-Pacific area. These species include:

Panarona

- clavatula* (Sowerby, 1832)
Recent, Panamic-Pacific
- exopleura* (Dall, 1908) Recent, Panamic-Pacific
- agria agria* (Mansfield, 1930)
Upper Miocene, Florida
- coensis* (Mansfield, 1930)
Upper Miocene, Florida
- trema* (Olsson, 1932) Upper Miocene, Peru
- agria uaquala* (Mansfield, 1935)
Middle Miocene, Florida
- bullbrookii* (Mansfield, 1925)
Middle Miocene, Trinidad
- decaptyx* (Brown & Pilsbry, 1911)
Middle Miocene, Panama
- barystoma* (Woodring, 1970)
Middle Miocene, Panama
- atraktoides* (Gardner, 1937)
Middle Miocene, Florida
- blountiana* (Mansfield, 1935)
Middle Miocene, Florida

Narona, with *Cancellaria mitriiformis* Sowerby as type, is known only from the Miocene of Ecuador and Recent in the Panamic-Pacific fauna. Recent Mediterranean and European Tertiary species of *Cancellariidae* assigned to *Narona* by various authors (NORDSIECK, 1968; and others) have been incorrectly placed. Neither *Narona* nor *Panarona* is known from that area at present.

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